

WHAT IS CLAIMED IS:

1. A brush seal device mounted to one of two parts that move relative to each other with a gap therebetween,
5 for sealing the gap between said parts, comprising:
a brush seal formed from bristles arranged into a wall shape, and including an attachment portion formed by connecting said bristles together at one end, and a free end face facing an opposing surface of said other part;
10 a back plate connected to said attachment portion of said brush seal, and including a support surface for supporting a side surface of said brush seal; and
a retaining plate for retaining said attachment portion of said brush seal between said retaining plate and said
15 back plate, wherein
said support surface of said back plate and an opposing surface of said brush seal are disposed at a distance from each other, and said bristle of said brush seal has a diameter of 0.15 mm to 0.008 mm.
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2. The brush seal device according to claim 1, wherein said back plate includes a line-shaped projection at said support surface, which extends along an arrangement direction of said bristles.

3. The brush seal device according to claim 1, wherein said back plate includes a recess formed along an arrangement direction of said bristles, and said recess serves as said support surface.

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4. The brush seal device according to claim 3, wherein said recess has a line-shaped projection extending along the arrangement direction of said bristles.

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5. The brush seal device according to claim 3, wherein said bristles of said brush seal are tilted from said attachment portion, and said support surface of said back plate or a side surface of said retaining plate facing said brush seal includes a resistance means for preventing said bristles from moving in such a direction as reduces their tilt angle.

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